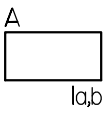
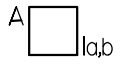
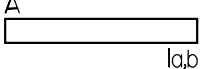







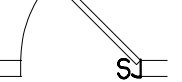







ELECTRICAL LEGEND:



















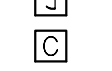
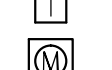





LIGHTING

	2'x4' FLUORESCENT LIGHT FIXTURE. 'A' DENOTES FIXTURE TYPE. 'T' DENOTES CIRCUIT NUMBER. 'wb' DENOTE SWITCH CONTROLLERS'. 'o' - OUTSIDE LAMPS. 'i' - INSIDE LAMPS. HALF-SHADED FIXTURES INDICATE FIXTURE TO BE FURNISHED WITH AN INTEGRAL EMERGENCY BALLAST, OR WIRED TO AN EMERGENCY GENERATOR (IF PRESENT)
	2'x2' FLUORESCENT LIGHT FIXTURE. 'A' DENOTES FIXTURE TYPE. SEE NOMENCLATURE ABOVE
	8' PENDANT INDIRECT LIGHT FIXTURE. (LENGTHS MAY VARY) SEE NOMENCLATURE ABOVE
	RECESSED DOWNLIGHT (DIAMETER MAY VARY) HALF-SHADED FIXTURES INDICATE FIXTURE TO BE FURNISHED WITH AN INTEGRAL EMERGENCY BALLAST
	SELF-CONTAINED EMERGENCY BATTERY UNIT (EBU) MOUNTED 80" ABOVE FINISHED FLOOR
	CEILING MOUNTED EXIT SIGN. ARROWS INDICATE DIRECTION TO EXIT. SHADING INDICATES SIDES! TO HAVE 'EXIT' STENCIL SEE NOMENCLATURE ABOVE
	WALL MOUNTED EXIT SIGN. SEE NOMENCLATURE ABOVE
	SINGLE POLE SWITCH. 'o' - DENOTES SPECIFIC LAMPS TO BE CONTROLLED. MOUNTED 48" ABOVE FINISHED FLOOR
	1000W DIMMER SWITCH LUTRON HRC-HOND-WH MOUNTED 48" ABOVE FINISHED FLOOR
	6 BUTTON SCENE SELECTOR SWITCH LUTRON HRCO-W6BR-L-WH MOUNTED 48" ABOVE FINISHED FLOOR
	DOOR FRAME MOUNTED (HINGE SIDE) PLUNGER SWITCH





LIGHTING CONTROL SYSTEM

	CEILING MOUNTED PASSIVE INFRARED / MICRO-PHONIC OCCUPANCY SENSOR WATT STOPPER NO.1 DT-300 PROVIDED WITH WATT STOPPER POWER PACK = BZ-100 OR EQUAL
	CEILING MOUNTED RF VACANCY / OCCUPANCY SENSOR LUTRON HRP2-C06B2/C06B2-P-WH. 'W' DENOTES WIRELESS
	CEILING MOUNTED PASSIVE INFRARED / MICRO-PHONIC NARROW BEAM OCCUPANCY SENSOR WATT STOPPER NO.1 WT-255 PROVIDED WITH WATT STOPPER POWER PACK = BZ-100 OR EQUAL
	WALL MOUNTED PASSIVE INFRARED / ULTRASONIC OCCUPANCY SENSOR WATT STOPPER NO.1 DW-100 OR EQUAL
	WALL MOUNTED DUAL-SWITCHABLE OCCUPANCY SENSOR WATT STOPPER NO.1 WA-500 OR EQUAL. 'wb' - DENOTE SWITCH CONTROLLERS'. 'o' - OUTSIDE LAMPS. 'i' - INSIDE LAMPS



















POWER

	DUPLEX CONVENIENCE OUTLET, 20A 125V, 2 POLE, 3 WIRE, U-SLOT GROUNDED TYPE MOUNTED 18" ABOVE FINISHED FLOOR (TO CENTER LINE) 'T' INDICATES CIRCUIT NUMBER
	DOUBLE DUPLEX OUTLET, MOUNTED 18" ABOVE FINISHED FLOOR. SEE NOMENCLATURE ABOVE
	DOUBLE DUPLEX OUTLET, MOUNTED 48" ABOVE FINISHED FLOOR. SEE NOMENCLATURE ABOVE
	DUPLEX CONVENIENCE OUTLET, WITH ONE OUTLET AND TWO USB PORTS MOUNTED INSIDE WINDOW SEAT. SEE NOMENCLATURE ABOVE
	DUPLEX CONVENIENCE OUTLET, WITH ONE OUTLET AND TWO USB PORTS WITH BLANK PANEL FOR PHONE CLIP MOUNTED 24" ABOVE FINISHED FLOOR. SEE NOMENCLATURE ABOVE
	DUPLEX CONVENIENCE OUTLET, WITH ONE OUTLET AND ONE FLUSH MOUNTED MODULAR RJ45 DATA JACKS WITH 8/C #24 AWG, CATEGORY 6, MOUNTED 48" ABOVE FINISHED FLOOR. SEE NOMENCLATURE ABOVE
	DUPLEX CONVENIENCE OUTLET, 20A 125V, 2 POLE, 3 WIRE, U-SLOT GROUNDED TYPE MOUNTED AT CEILING. SEE NOMENCLATURE ABOVE
	GROUND FAULT INTERRUPTING (GFI) TYPE DUPLEX CONVENIENCE OUTLET, MOUNTED 18" ABOVE FINISHED FLOOR. 'WP' - DENOTES TO BE PROVIDED WITH A WEATHER-PROOF ENCLOSURE. SEE NOMENCLATURE ABOVE
	GROUND FAULT INTERRUPTING (GFI) TYPE DUPLEX CONVENIENCE OUTLET, MOUNTED 48" ABOVE FINISHED FLOOR. SEE NOMENCLATURE ABOVE
	FIRE RATED POKE-THRU DUPLEX RECEPTACLE. W/ 12RJ-45 DATA JACKS, SIMILAR TO PASS & SEYMOUR HRC4ATCAL
	SPECIAL PURPOSE OUTLET, RATING AS INDICATED ON DRAWING. '20A' - DENOTES AMPERAGE. EXACT MOUNTING HEIGHT SHALL BE VERIFIED IN FIELD
	HORSEPOWER RATED THERMAL SWITCH
	NON-FUSED DISCONNECT SWITCH, SIZE AND RATING AS INDICATED ON DRAWINGS
	FUSED DISCONNECT SWITCH, SIZE AND RATING AS INDICATED ON DRAWINGS
	MUSHROOM BUTTON / MOMENTARY SWITCH
	FAN / MOTOR. '2' - DENOTES HORSEPOWER / WATTAGE
	EXHAUST FAN
	GARBAGE DISPOSAL
	RECESSED PANELBOARD. 'LP' - DENOTES PANEL DESIGNATION
	SURFACE MOUNTED PANELBOARD. 'LP' - DENOTES PANEL DESIGNATION
	4" CIRCULAR JUNCTION BOX
	4" SQUARE JUNCTION BOX
	CONTROLLER
	TRANSFORMER RATING AS INDICATED ON DRAWINGS. DIMENSIONS VARY
	METER


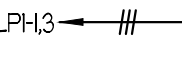

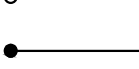
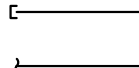
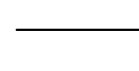
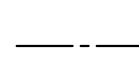
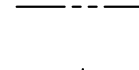
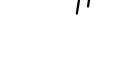

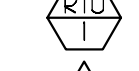
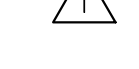
DATA/ COMMUNICATION/ SECURITY

	TELEPHONE OUTLET MOUNTED 18" ABOVE FINISHED FLOOR. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A FLUSH MOUNTED, SINGLE PORT, MODULAR RJ11 TELEPHONE JACK WITH (1) 4/C #24 AWG, CATEGORY 3, TELEPHONE CABLE FROM EACH OUTLET INDICATED ON THE PLANS TO STORAGE ROOM 14. 'W' - DENOTES PHONE MOUNTED 48" ABOVE FINISHED FLOOR
	DATA OUTLET MOUNTED 18" ABOVE FINISHED FLOOR. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL (1) FLUSH MOUNTED, SINGLE PORT, MODULAR RJ45 DATA JACK WITH (1) 8/C #24 AWG, CATEGORY 6, DATA CABLE FROM EACH OUTLET INDICATED ON THE PLANS TO STORAGE ROOM 14
	TRIPLE PORT DATA OUTLET MOUNTED 18" ABOVE FINISHED FLOOR. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL (2) FLUSH MOUNTED MODULAR RJ45 DATA JACKS WITH (2) 8/C #24 AWG, CATEGORY 6, DATA CABLES, (1) FLUSH MOUNTED RJ11 TELEPHONE JACK, (1) 4/C #24 AWG, CATEGORY 3, TELEPHONE CABLE FROM EACH OUTLET INDICATED ON THE PLANS TO STORAGE ROOM 14
	CABLE T.V. OUTLET, MOUNT 18" A.F.F. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL AN OUTLET BOX, FACEPLATE W/ 1" CP CONNECTOR AND A SINGLE COAXIAL CABLE FROM EACH OUTLET TO STORAGE ROOM 14. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LOCAL CABLE COMPANY FOR EXACT CABLE TYPE.



ONE-LINE

	CIRCUIT BREAKER. TOP VALUE DENOTES BREAKER RATING. BOTTOM VALUE DENOTES NUMBER OF POLES
	FUSE, RATING AS INDICATED ON DRAWINGS
	SINGLE POLE SWITCH
	PUSH BUTTON
	FUSE AND SWITCH
	GROUND FAULT SENSOR
	COIL
	SHUNT TRIP COIL
	POTENTIAL TRANSFORMER
	CURRENT TRANSFORMER
	TRANSFORMER
	AUTOMATIC TRANSFER SWITCH (ATS)
	BATTERY
	GROUND CONDUCTOR
	SURGE PROTECTION DEVICE
	GENERATOR RATING AS INDICATED ON DRAWINGS
	THERMOSTAT
	THERMAL TRIP

WIRING

	HOMERUN - CABLE. LPI - DENOTES PANELBOARD. I3 - DENOTES CIRCUITS. 'TICKS' INDICATE NUMBER OF CONDUCTORS IN THE RUN
	HOMERUN - PIPE. SEE NOMENCLATURE ABOVE
	LOAD CENTER DESIGNATION 'T' INDICATES WIRE & BREAKER SIZE/ RATING. (SEE TYPICAL HOME RUN SCHEDULE)
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT STUB
	WIRE BREAK
	NORMAL POWER WIRING
	EMERGENCY POWER WIRING
	TEL/DATA WIRING
	LOW VOLTAGE / CONTROL WIRING
	ISOLATED GROUND WIRING. 'TICK SETS II SHORT & I LONG' INDICATE NUMBER OF CONDUCTORS IN THE RUN

ABBREVIATIONS & NOTATION

	MECHANICAL EQUIPMENT DESIGNATION. CONTENTS DESCRIBE MACHINERY (BY MECHANICAL ENGINEER)
	REVISION TAG. '1' - DENOTES REVISION NUMBER
ABBREVIATIONS:	
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
EC	ELECTRICAL CONTRACTOR
EX	EXISTING TO REMAIN
ER	EXISTING TO BE RELOCATED
ETR	EXISTING TO BE REMOVED
ENR	EXISTING TO BE REPLACED
TR	TAMPER RESISTANT
IG	ISOLATED GROUND
WP	WEATHER-PROOF

GENERAL NOTES

- PERFORM ALL WORK IN ACCORDANCE WITH NATIONAL AND STATE ELECTRICAL CODES, LOCAL ORDINANCES, AND REQUIREMENTS OF THE WIRING INSPECTOR.
- MATERIALS
  - ALL WIRING SHALL BE COPPER, 90 AMPS OR LESS SHALL BE 60° CELSIUS, 100 AMPS OR MORE SHALL BE 75° CELSIUS. GENERAL BRANCH WIRING SHALL BE TYPE 'MC' CABLE INSIDE WALLS OR ABOVE HUNG CEILINGS.
  - ANY EXPOSED BRANCH CIRCUIT WIRING, LOW VOLTAGE WIRING, AND TEL/DATA WIRING INCLUDING FIRE ALARM CABLES SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) ON EXPOSED BEAMS, EXPOSED CEILINGS, AND EXPOSED WALLS UNLESS NOTED OTHERWISE.
  - ALL PRODUCTS AND DEVICES SHALL BE NEW AND BEAR THE UNDERWRITERS' LABORATORIES LABEL. DEVICES SHALL BE SPECIFICATION GRADE. COLOR OF DEVICES SHALL BE COORDINATED WITH THE ARCHITECT.
- PERFORM ALL WORK IN A WORKMANLIKE AND TIMELY MANNER SUBJECT TO THE APPROVAL OF THE ENGINEER.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSURANCE, PERMITS, FEES AND BACK-CHARGES REQUIRED FOR THE PERFORMANCE OF HIS/HER WORK.
- ELECTRICAL CONTRACTOR SHALL COORDINATE THE ELECTRICAL WORK WITH ALL OTHER TRADES. ANY CONFLICT SHALL BE PRESENTED TO THE GENERAL CONTRACTOR AND ENGINEER PRIOR TO INSTALLATION OF WORK.
- PANEL DIRECTORIES SHALL REFLECT THE WORK PERFORMED UNDER THIS CONTRACT. PANELS SHALL BE PROVIDED WITH TYPED DIRECTORIES.
- ALL PRODUCTS SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE BY OWNER.
- ALL WIRING AND EQUIPMENT ARE DEPICTED DIAGRAMMATICALLY. FINAL LOCATIONS SHALL BE DETERMINED IN THE FIELD AND ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY POWER AND LIGHTING. SPECIAL PURPOSE POWER REQUIREMENTS SHALL BE PAID FOR BY THE TRADE REQUIRING SAME. (WELDERS, COMPRESSORS, ETC.)
- SHOP DRAWINGS SHALL BE SUBMITTED ON ALL ELECTRICAL EQUIPMENT, BEFORE PROCUREMENT OF EQUIPMENT.
- ALL NEW WIRING INDICATED ON PLANS SHALL MATCH THE AMPACITY OF THE CIRCUIT BREAKER INDICATED AT THE HOMERUN, WHERE NO BREAKER SIZE IS INDICATED, THE BREAKER SHALL BE 20AMP WITH #2 AWG CABLE.
- WIRE AND CONDUIT SIZES INDICATED ON HOMERUNS SHALL RUN CONTINUOUS THROUGHOUT CIRCUIT.
- CONDUITS AND CIRCUITRY INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. FINAL LOCATION OF CONDUITS SHALL BE FIELD COORDINATED SO AS TO AVOID CONFLICTS WITH OTHER TRADES.
- ALL 120 VOLT BRANCH CIRCUITS WHEN 100 LINEAR FEET OR MORE FROM LAST OUTLET OR FIXTURE IN CIRCUIT TO RESPECTIVE PANELBOARDS SHALL BE A MINIMUM OF #10 AWG COPPER WIRES).
- COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH H.V.A.C., PLUMBING AND FIRE PROTECTION CONTRACTORS.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LIGHTING FIXTURES COMPLETE WITH MOUNTING ACCESSORIES TO MEET PROJECT CONDITIONS.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY FIXTURE MOUNTING AND EXACT LOCATIONS AGAINST ARCHITECTS REFLECTED CEILING PLANS, ELEVATIONS AND DETAIL DRAWINGS.
- ALL FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, INDEPENDENT OF HUNG CEILING.

DEMOLITION NOTES:

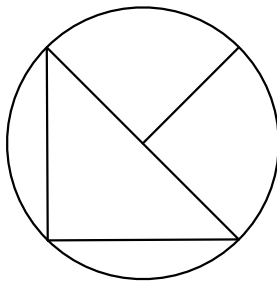
- ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING LIGHT FIXTURES, EMERGENCY LIGHTING, JUNCTION BOXES, CONDUIT, BRANCH CIRCUIT WIRING AND ALL OTHER ASSOCIATED ELECTRICAL APPLIANCEANCES BACK TO THE APPROPRIATE SOURCE OF POWER.
- ELECTRICAL CONTRACTOR SHALL REMOVE ALL RECEPTACLES, LIGHT SWITCHES, OUTLET BOXES, CONDUIT, BRANCH CIRCUIT WIRING AND ALL OTHER ASSOCIATED ELECTRICAL APPLIANCEANCES BACK TO THE APPROPRIATE TEL/ DATA CLOSET.
- ELECTRICAL CONTRACTOR SHALL REMOVE ALL VOICE/ DATA OUTLETS, OUTLET BOXES, RINGS DATA CABLING AND ALL OTHER ASSOCIATED ELECTRICAL APPLIANCEANCES BACK TO THE APPROPRIATE TEL/ DATA CLOSET.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ANY BRANCH CIRCUIT WIRING THAT IS EXISTING TO REMAIN IN AREAS WHERE DEMOLITION IS TAKING PLACE.
- WHERE ELECTRICAL DEVICES AND/ OR EQUIPMENT ARE TO BE REMOVED, THE ELECTRICAL CONTRACTOR SHALL TAKE CARE TO MAINTAIN EXISTING CIRCUIT WHEN ADDITIONAL DEVICES DOWN STREAM, ARE EXISTING TO REMAIN.



VINCENT A. DIORIO, INC.  
CONSULTING ENGINEERS

89 Access Road Suite Eighteen  
Norwood, Massachusetts 02062  
tel: (781) 255-9754 fax: (781) 255-9725 email: vadjr@vadeng.com  
www.vadeng.com

Date: January 24, 2014	Job #: 009-1403		
Drawn By: JMS	Checked By: VADjr		
Revision Schedule			
Revision	Date	Description	By



Acton Memorial Library  
Vestibule Project

486 Main Street  
Acton, MA 01720

ELECTRICAL LEGEND &  
NOTES

E0.01